
CERN Council Update

Nikhef Staff Meeting
19-4-2018

CERN members

Council

President: Sijbrand de Jong
Secretary: Fabiola Gianotti (DG)

22 member states

2-person delegation for each
NL: Jos Rokx (OC&W), E.Laenen (scientific delegate)

2 associate member states in
prestige to membership
(Cyprus, Serbia)

5 associate member states (India,
Pakistan, Turkey, Ukraine,
Lithuania)

Observers: European
Commission, Japan, USA,
Russia, Unesco

Ex officio: Chair of SPC, FC

Structure of governance

Council

Scientific Policy Committee (SPC)

Finance Committee (FC)

Jos Rokx (OC&W),
E.Laenen (advisor)

TREF (employment conditions)

Jos Rokx (OC&W)

CERN Audit Committee

Pension Fund Governing Board

Council week

- ◆ Monday+ Tuesday: Scientific Policy Committee
 - ▶ No Dutch members at present, most recent: Gerard 't Hooft
 - ▶ Chair: R. Keith Ellis (Durham)
- ◆ Wednesday: Finance Committee
 - ▶ Chair: Ossi Malmberg (Finland)
- ◆ Thursday (+ Friday): Council
 - ▶ President: Sijbrand de Jong
- ◆ Council sessions:
 - ▶ Open: all are welcome
 - ▶ Restricted: MS + AM + DG, ex-officio members
 - ▶ Closed: members only (for elections etc) + DG

Financial

- ◆ Total annual contribution, about 1.1. BCHF
 - ▶ Contributions from member states very solid, important for long-term physics
- ◆ Annual NL contribution (line-item in state budget): about 53 MCHF (48 MEuro)
 - ▶ proportional to GDP
 - ▶ largest of “small countries”, behind Germany, UK, France, Italy
- ◆ Important to get good “return”
 - ▶ In staff positions (permanent, LD, Fellows, etc)
 - ▶ Contracts in services, hardware etc
 - ▶ Important: Industrial Liaison Officers (ILO's): Rob Klöpping, Jan Visser

Recent decisions: 187th session (Dec. '17)

- ◆ Lots of financial reporting
- ◆ Cooperation agreement of CERN and Kazakhstan
- ◆ “Earned-Value-Management” on High-Lumi LHC overview
- ◆ Council expressed support for “Science Gateway (visitor and education centre)”
 - ▶ next to Globe, paid by externals?
- ◆ Enlargement issue:
 - ▶ Russia withdraws AM application, closed
 - ▶ Croatia AM: task force composed
- ◆ Took note:
 - ▶ Nice presentation of outcome of questionnaire of post-CERN-PhD careers

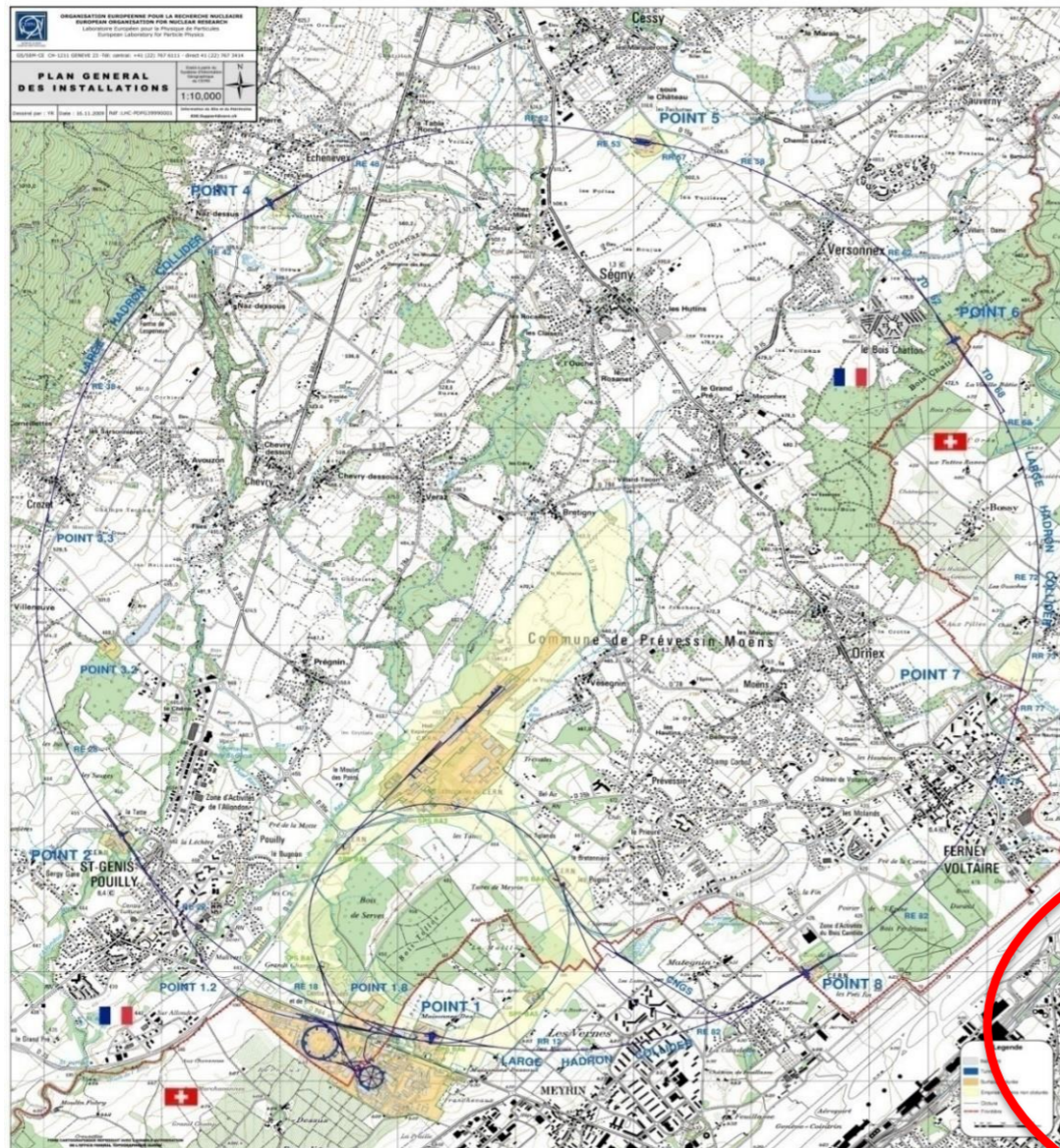
Recent decisions: 188th session (Mar. '18)

- ◆ Status reports on LHC experiments, computing; YETS and outlook
- ◆ Report of Audit committee (now with more extended Terms of Reference)
- ◆ Annual Progress Report, MTP
 - ▶ Building overview (later)
 - ▶ Alumni programme, kicked off (sign up!)
- ◆ EPPSU timeline (later)
- ◆ More enlargement discussions (later)

Site and building renovation



CERN today - key figures



Two main sites :

Meyrin (CH-FR) : 80 hect.

Prévessin (FR) : 83 hect.

15 satellite sites

Number of buildings : ~ 674

425'000 m² of surface

60% of the buildings are 30+ years old

Tunnel lengths : > 70 km

Caverns : > 80

30 km of roads

1'000 km of technical galleries/trenches

Total CERN fenced territory : 208 hect.

Total CERN unfenced territory : 418 hect.

- fenced territory - CH: 51 hect.
- unfenced territory - CH : 59 hect.
- fenced territory - F : 157 hect.
- unfenced territory - F : 359 hect.

495 hostel rooms

~ 2'500 Staff

~ 2'000 Fellows and Paid Assoc.

~ 12'300 Users

~ 4'000 Contractor employees

~ 135'000 visitors/y

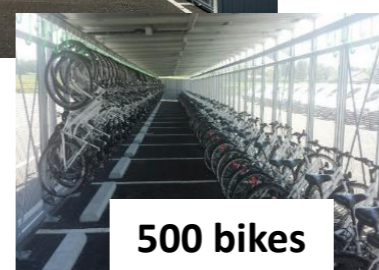
On average 9'500 people every day at CERN

CERN is a city



Site Services

- Civil engineering services
- Material Management & Storage Services
- Fire protection services (Fire Brigade)
- Registration, access & security services
- Facility management services (HVAC/Elec., Sanitary, Cleaning, green spaces..)
- Business application services
- Alarm system services
- Mail, Removal & Distribution of Goods Services
- Transport, Shipping & Goods Reception Services
- Waste Management Services
- Person mobility services (Cars, Bicycles, Busses, ..)
- Library & Archive Services
- Hotel & Restaurant Services
- Finance & Purchasing Services
- HR Services
- ...





Campaign Roof Maintenance

~200 interventions for roof repairs and ~10 complete refurbishment .



Master plan 2030



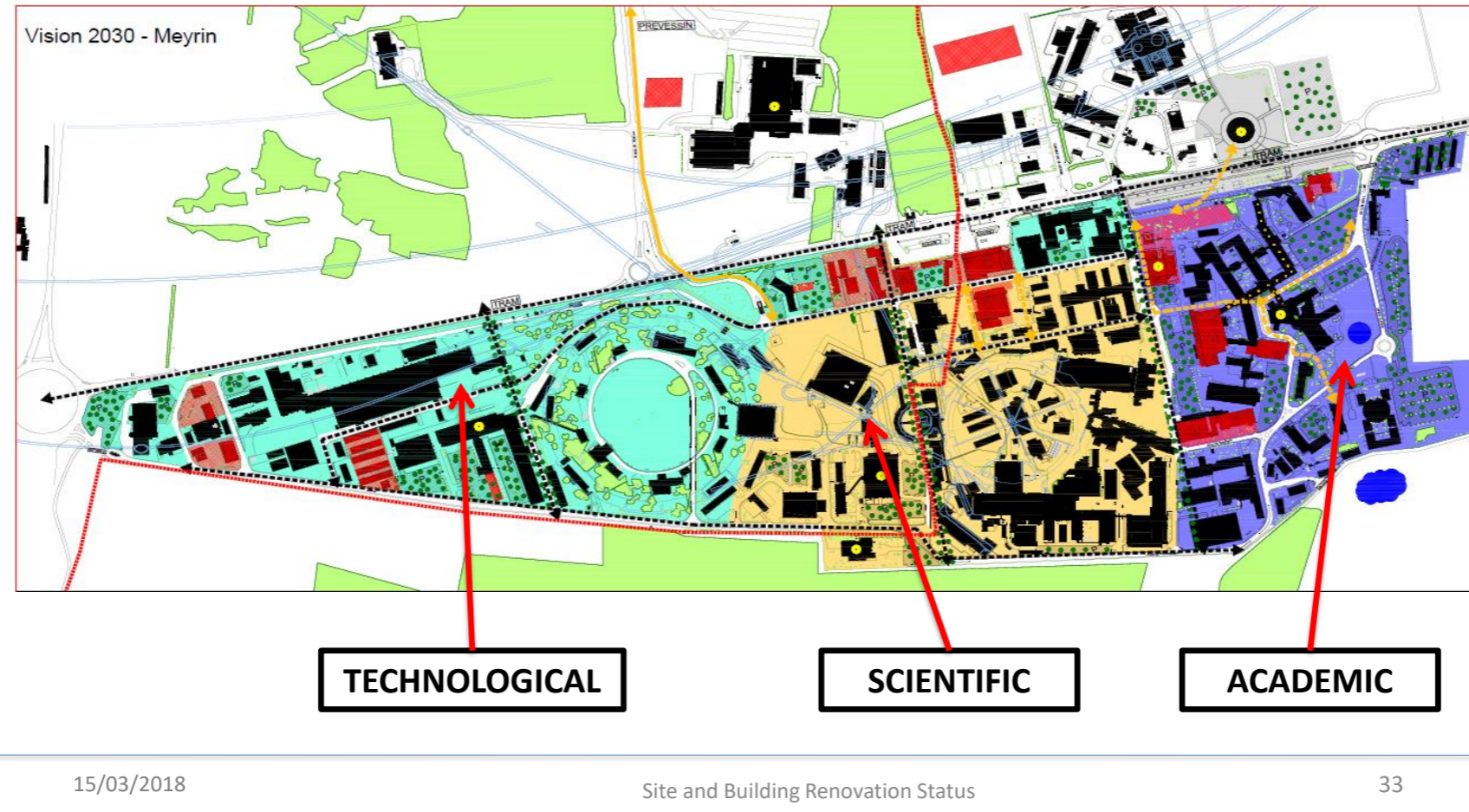
OBJECTIVES

In order to respond to this strategic vision, the Masterplan 2030 proposes a planning by objectives, structured around four issues related to:

- urban planning,
- mobility,
- environment and energy,
- landscape.

The major issues that the diagnosis highlights from the urban planning point of view are:

- Reinforce the different polarities within the areas (academic / scientific / technological)
- Balance the sites (Prévessin upgrade compared to Meyrin)
- Develop a space management policy for all types of use
- Consolidate and renovate the infrastructures



- ◆ New buildings
- ◆ 90 (for Council, meetings, etc); Convention/Exhibition building (near Globe)
- ◆ Esplanade des Particules, etc

Geographical enlargement

- ◆ At present 22 member states, 2 AM prestage, 5 AM
 - ▶ Not a trivial procedure, involves parliaments, task force, etc
- ◆ Newest member states: Israel (2014), Romania (2016)
- ◆ Newest associate members: India (2017), Lithuania (2018)
 - ▶ Now there are deadlines in the application procedure
- ◆ Quite a few countries interested, some well beyond Europe
- ◆ New countries should be able to benefit from CERN, and vv
 - ▶ have existing particle physics efforts, and associated industry
- ◆ Sometimes great disparity contribution
 - ▶ Some below 1MCHF, Germany 230 MCHF
- ◆ Working group will start discussing this general topic

Technical Internships at CERN

- ◆ Goal: to raise the number of Dutch interns (sustained) at CERN in the technical groups (we are in the “red zone”)
 - ▶ TTE, Short-term Internships, Technical students
- ◆ Make Nikhef a “portal” for HBO, MBO, etc interns
 - ▶ Important for Nikhef to play this role, and for CERN sympathy in NL
 - ▶ Also for Nikhef workshops, important to get good and many interns
- ◆ Lots of efforts by Patrick Werneke, Melissa van der Sande and others
 - ▶ we have “liaisons” at CERN that help us: Jan van Eldik, Martijn Mulders, Wim Weterings
 - ▶ also CERN HR department helps us, comes to “beurzen” in NL
- ◆ New website at Nikhef with much information, by Melissa
 - ▶ She has also made excellent 4 testimonial videos, 2 can be found on the site already

Technical Internships



The screenshot shows the Nikhef website's navigation bar with the logo on the left and menu items: NIKHEF, ONDERZOEK, PARTNERS, PUBLIEK, ACTUEEL, MEDIA, JOBS, CONTACT. A search bar with 'ZOEKEN' and a magnifying glass icon is on the right, along with 'INTRANET' and 'EN'. Below the navigation bar is a purple banner with links: MERKEN BIJ NIKHEF, VACATURES, OPEN SOLLICITATIE, ARBEIDSVORWAARDEN, STAGES & AFSTUDEREN NIKHEF, TECHNISCHE STAGES CERN, ZOEK EEN NE. The main content area features a photograph of a man in a blue shirt working in a server room, with a camera operator in a plaid shirt filming him. Below the photo is the heading 'Technische stages CERN' and a paragraph of text: 'Zonder getalenteerde en toegewijde technici is wetenschappelijk onderzoek niet mogelijk. Nu is je kans om te werken in het grootste wetenschappelijke instituut ter wereld! **Bekijk onderaan deze pagina de eerste twee van vier testimonials van huidige studenten op CERN.**'

- ◆ <https://www.nikhef.nl/jobs/technische-stages-cern/>, check it out!
- ◆ Information both practical and technical
- ◆ Well-advertised through social media

CERN staff ambassadors

- ◆ Wim Weterings gave talk in Leiden at LIS
- ◆ Last december: Rende Steerenberg at HVA, arranged by Patrick
 - ▶ 5pm, over 100 students!



Increasing awareness and applications

- ◆ A lot of interest of HvA (Patrick with teachers to CERN)
 - ▶ Civil engineering, ICT, Electronics, various students already at CERN
- ◆ Windesheim involved as well, and now more HBO's
- ◆ ROC Amsterdam instrumentmakerij, LIS
- ◆ Maastricht U. (ICT) etc etc
- ◆ Starts looking good, but requires continued effort

Protocol (VIP) visits

- ◆ Highly important to make policy makers etc more aware of CERN, and get them enthusiastic
 - ▶ CERN does this really well.

44 Protocol Visits since beginning of the year

Member States:	24
Austria	3
Belgium	2
Denmark	1
France	4
Germany	1
China	1
Netherlands	5
Norway	1
Poland	1
Spain	1
United Kingdom	4

Associates: 2

Lithuania	1
Slovenia	1

Observers: 4

Japan	2
United States of America	2

Non-Member States: 10

Australia	2
Bahrain	1
Canada	1
Estonia	1
Latvia	1
Mexico	1
Mozambique	3

Miscellaneous: 4

- DG's New Year Reception (Jan.)
- Visit for Permanent Representatives (Jan.)
- ISSO DG (Jan.)
- Council Delegates to AD/Dens (Feb.)

Including 3 Heads of State and 1 Head of Government

Number 1!!

Mozambique!

To be compared to 34 (2016) and 44 (2017) over the same period

Protocol (VIP) visits

- ◆ This shutdown period, 3 university boards
 - ▶ Maastricht, Nijmegen, Groningen
- ◆ VSNU
 - ▶ Pieter Duisenberg
- ◆ Ministry of OCW, plus chair of MKB



High School Student Internship Programme (HSSIP)

- ◆ Started last year, every year 5 countries. Netherlands starts in two weeks!
- ◆ About 24 students, selected from Olympiads in Physics and a few in Computer Science.
- ◆ Stay 2 weeks, all paid by CERN, with 3 teachers
- ◆ They do projects in CERN, interesting programme
 - ▶ Rende Steerenberg, Marcel Vlastuin, Erwin Bielert, Ad Mooldijk
- ◆ More on this next time..

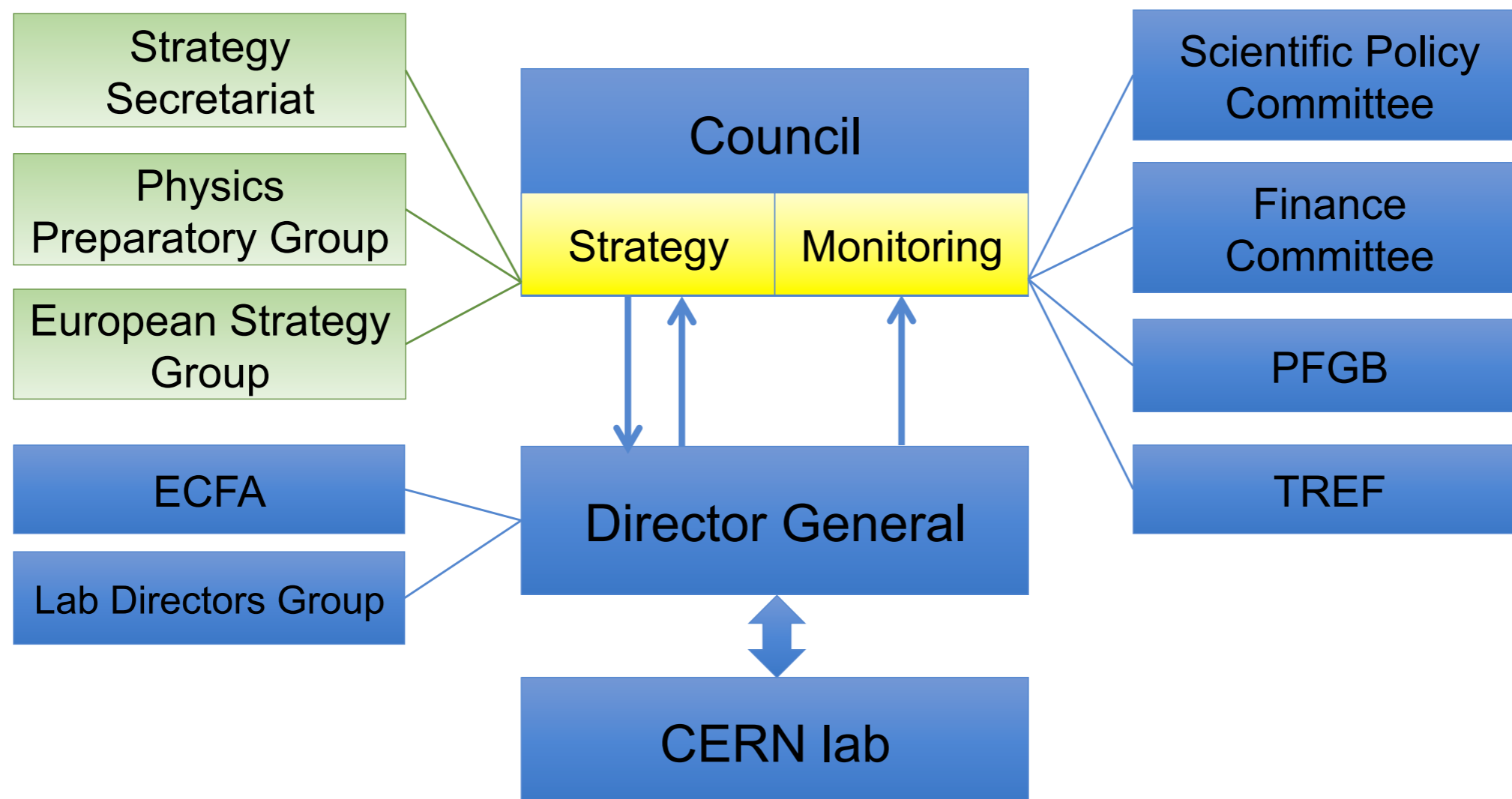
Industrial Return

- ◆ Here the Netherlands is “Poorly Balanced” , although improving
- ◆ ILO Jan Visser (and Rob Klöpping)
 - ▶ A lot of effort to shepherd Dutch bids for contract tenders
 - ✓ CERN not always a reliable partner
- ◆ Procurement rules changes, important!
 - ▶ Pilot for Best Value for Money for Supplies (hardware) in the works

European Strategy for Particle Physics Update

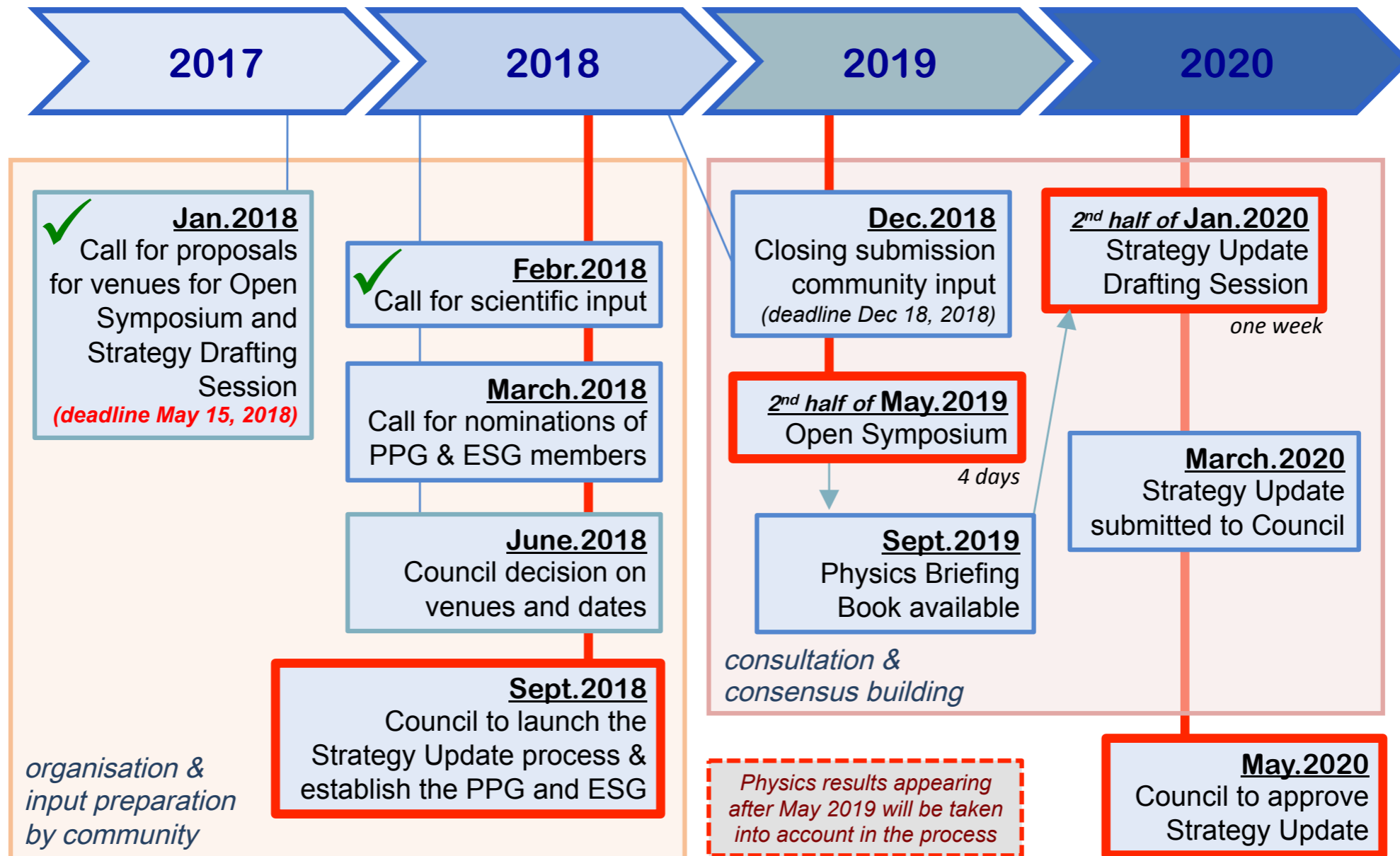
- ◆ Guideline for the next 6-7 years; CERN follows this quite closely
- ◆ Start by Council in Sept. 2018, end in May 2020
- ◆ Secretary: Halina Abramowicz
 - ▶ Assisted by SPC Chair (Keith Ellis), ECFA Chair (Jorgen D'Hondt), Lab Director Group (Lev Rivkin)
- ◆ Official meetings
 - ▶ Open meeting: May 2019, place TBD
 - ▶ Writing session: Jan 2020, place TBD
 - ▶ Draft strategy to Council in March 2020 session, approval in special May 2020 session
- ◆ Timepath just approved by Council (with some discussion)

European Particle Physics organisation & governance



Based on a slide from the President of Council, at the FALC meeting, Cambridge (UK), March 8, 2018³

European Particle Physics Strategy Update



General considerations by the Strategy Secretariat:

- The Strategy Update process follows a bottom-up approach
- To facilitate the bottom-up approach an Open Call for input reaching out to all members of the particle physics community is issued; including research groups, research networks or collaborations, laboratories, universities, (inter)national institutions and/or organisations.
- The aim is to gather all relevant input, e.g. on scientific projects, position papers, national roadmaps, etc.
- The concrete scientific input will be considered by the Physics Preparatory Group (PPG) towards the organisation of the Open Symposium and to deliver the Physics Briefing Book.
- Other inputs will be considered by the European Strategy Group (ESG) to draft the Strategy Update.

Physics Preparatory Group (PPG) composition, adopted by Council, December 2013:

- The Strategy Secretary (acting as Chairperson),
- four members appointed by the Council on the recommendation of the SPC,
- four members appointed by the Council on the recommendation of ECFA,
- the SPC Chairperson,
- the ECFA Chairperson,
- the Chairperson of the European Laboratory Directors' meeting,
- one representative appointed by CERN,
- **one** representative from Asia appointed by the respective regional representatives in ICFA,
- **one** representative from the Americas appointed by the respective regional representatives in ICFA.

The Council will be invited to approve the amendment: In view of the increasing number of countries in Asia and the Americas that are assuming important roles in shaping the global scientific particle physics programme, the Strategy Secretariat proposes to increase the respective number of representatives on the PPG **from one to two from each region.**

European Strategy Group (ESG) composition, adopted by Council, December 2013:

- the Strategy Secretary (acting as Chairperson),
- one representative appointed by each CERN Member State,
- one representative for each of the Laboratories participating in the major European Laboratory Directors' meeting, including its Chairperson,
- the CERN Director-General,
- the SPC Chairperson,
- the ECFA Chairperson.

Responsible to deliver a draft
Strategy Update to Council.

Invited:

- the President of the CERN Council,
- one representative from each of the Associate Member States,
- one representative from each Observer State,
- one representative from the European Commission,
- the Chairpersons of ApPEC, FALC, ESFRI and NuPECC,
- the members of the Physics Preparatory Group.

Also upcoming

- ◆ The usual: MTP, Project management, Audits,
- ◆ Enlargement, those can be interesting discussions
- ◆ Election for new President of Council